



Bonneville Dam

Columbia River, Multnomah Co, Oregon

Northwestern Division (CENWD)

Portland District

First Powerhouse

Unit 0

Turbine Type:	Kaplan
Turbine Manufacturer:	S. Morgan Smith
Horsepower:	5,000
RPM:	257
Rated Head:	50 feet
Generator Manufacturer:	Elec. Mach. Corp.
Generator Rated KVA:	5,000
Generator Rated PF:	80%
Generator Rated KW:	4,000
Generator Max. KW:	-
Generator Rated KV:	2.4

Unit 1

Turbine Type:	Kaplan
Turbine Manufacturer:	S. Morgan Smith
Horsepower:	66,000
RPM:	75
Rated Head:	50 feet
Generator Manufacturer:	General Electric
Generator Rated KVA:	48,000
Generator Rated PF:	90%
Generator Rated KW:	43,200
Generator Max. KW:	49,680
Generator Rated KV:	13.8

Unit 2

Turbine Type:	Kaplan
Turbine Manufacturer:	S. Morgan Smith
Horsepower:	66,000
RPM:	75
Rated Head:	50 feet
Generator Manufacturer:	General Electric (Rewound by National Electric Coil circa 1976)
Generator Rated KVA:	54,240
Generator Rated PF:	95%
Generator Rated KW:	51,500
Generator Max. KW:	56,400 (shaft limited)
Generator Rated KV:	13.8

Units 3 - 6

Turbine Type:	Kaplan
Turbine Manufacturer:	S. Morgan Smith
Horsepower:	74,000
RPM:	75
Rated Head:	60 feet
Generator Manufacturer:	General Electric
Generator Rated KVA:	60,000
Generator Rated PF:	95%
Generator Rated KW:	54,000
Generator Max. KW:	62,100
Generator Rated KV:	13.8

Units 7 - 10

Turbine Type:	Kaplan
Turbine Manufacturer:	S. Morgan Smith
Horsepower:	74,000
RPM:	75
Rated Head:	60 feet
Generator Manufacturer:	General Electric (Rewound circa 1970, U10 rewound 1958)
Generator Rated KVA:	60,000
Generator Rated PF:	95%
Generator Rated KW:	54,000
Generator Max. KW:	62,100
Generator Rated KV:	13.8

Second Powerhouse

Units 11 - 18

Turbine Type:	Kaplan
Turbine Manufacturer:	Allis-Chalmers
Horsepower:	105,000
RPM:	69.2
Rated Head:	52 feet
Generator Manufacturer:	General Electric
Generator Rated KVA:	70,000
Generator Rated PF:	95%
Generator Rated KW:	66,500
Generator Max. KW:	66,500
Generator Rated KV:	13.8

Units F1 - F2

Turbine Type:	Kaplan
Turbine Manufacturer:	Sulzer/Escher-Wyss
Horsepower:	20,700
RPM:	156.5
Rated Head:	59 feet
Generator Manufacturer:	Westinghouse
Generator Rated KVA:	13,800
Generator Rated PF:	95%
Generator Rated KW:	13,110
Generator Max. KW:	13,110
Generator Rated KV:	13.8